city prices. ...

Dal., Lack, and Western R. R.

Newark and Bloomfield Branch. SUMMER, 1886.

TO NEW YORK. Leave Bloom field -6.08, 6.49, 7.19, 7;56, *8.32 19, 10:35, 11.39, a.m., 12.46, 1.45, +2.35, 3.35, 4.44 29, 6.15, 6.59, 8.20, 9.45, 11.10, p.m., 12.39 a.m. Note. - Trains leave Glen hidge 2 minutes earlier and Watsessing 2 minutes later than the time given above. . Does not stop at Newark.

FROM NEW YORK. Leave Barciay Street. 6.30, 7.20, 8.10, 9.30, 10.30 11.20 a.m., 12.40, *1.20, 2.10 3.40, 4.30, 4.50, 5.30, 6.20, 7.60, 8.30, 10.00, 11,30 p m. Leave Newark for Bloomfield 6.20, 6,40, 7.15, 7.51, 843, 10.03, 211.03, 11.53, a m, 1.13, *1.53, 2.44, 4.13, 5.26, 6.03, 6.53, 7.40, 9.03, 10.38 p m, 12.08 a m

Baturdays only. Nore-Leave Christopher street 5 minutes later than time given above.

New York & Greenwood Lake R. R.

Leave Bloomfield—5.38, 7.06, 7.59, *8.33, 8.56, 10.08 a.m., 1.38, 3.06, 3.51, 5.05, 6.54, 9.28 p.m. Sun day Trains 8.08 a m, 7.12 p m. Leave Bloom-field avenue, on signal only, 7.59, 10.10 a m, 5.10

FROM NEW YORK. Leave Chambers Street—6.00, 8.20, *9.00 a m, 12.00, 1.45, 3.40, *4.20, 4.40, 5.40, 6.20, 8.60, 11.30, b m. Sunday Trains—8.45 a m, 7.45 p m. Leave New York for Orange, stopping at Bloomfield avenue on signal, 8.45 a m, 1.30, 6.00, 9.15 p m. *Stop at North Newark only. Leave Bloomfield for Greenwood Lake-9.36 a m, 4.56 p m. Sundays, 9.39.

THE SEWAGE PROBLEM.

Inspection of the West System at Atlantic City by Rev. S. W. Duffield.

"THE DENNIS," ATLASTIC CITY. SEPT. 27, 1886 DEAR CITIZEN:

The sewage system of Atlantic City is said to be that which it is proposed to adopt for East Orange. It has been in operation here since about a year ago, and to day I made a thorough and rigid inspection of it in the interest of Bloomfield. It goes without saving that I am a partisan, as respects our good village, and that I was not at all prejudiced in favor of a scheme which—as we have all thought—left a personal investigation.

The City of Atlantic has an evident population of full 20.000. It has also in the season as high as 100,000 persons at one time staying at the hotels or spending the day as excursionists. It occupies the northern end of an island beach of about ten miles in length by half a mile wide, and extends for some two miles southerly from Absecom Inlet. This area is closely settled. Half of it is now drained by the West System," which I was to inspect.

The great sewer runs North and South and the laterals empty into it in such a manner as to give a fall of about ten feet to the mile at the receiving well. This well is just off from Baltic Ave. near the corner of North Carolina-in other words it is within easy reach of the principal business population and within a quarter of a mile of the Pennsylvania R. R. station. There are houses-of the poorer class—on both sides of it and across the way. You see two great pump the well free in a few minutes. A "tell-tale" on the wall indicates by the fall of a weight the filling of the well. When the well is full-which in the busy time occurs each thirty minutesthe pump is started and the sewage, unadulterated and as it has been received from the mains, is propelled across fifteen hundred feet of salt meadow and through a large iron pipe, into the "filtration bed."

I saw the black filthy stream running down into the well, but I smelled no disagreeable odor: I will match my sense of smell against anybody's, but it was plain that no one could smell what was not there. A draught | there and nowhere else. Of course I of cold air is drawn down upon the cannot vouch for this by any personal stream and an exhaust from the furnace sucks the gases up into the as a gentleman to sav this if it were chinney. The place is as sweet and not literally correct. clean as the East Orange Water Company's pumping room.

iron, as the wood becomes saturated and gives out unpleasant odors by and by. Into this an inclined "trunk" of wood—which he also proposes to alter into iron-delivers the nasty stuff from the well. Somewhere on the journey it has apparantly dropped some of its dirt, as it is not nearly so dark when it emerges as when it enters This might have been causedthough I do not think so-by a difference in the light by which I reviewed it, or there might be some arrangement at the well itself.

The filtration bed is like every great box made to hold water for a mill-race or similar purpose. It is about 100 ft. long, 20 wide and 10 or 12 feet high. As the sewage is delivered, it spreads over a lot of boards through which augur-holes have been bored. Here it again leaves a good deal of dirt behind and this the company cleans away now and then. Under the boards is a mass of sand—common sea sand. Below this again is a heavy layer of hay and salt grass resting on slats. The sewage drips down through all this, is caught by the wooden pan or floor below and is conducted away what has influenced me. in a stream at the end.

This last was the point I was most careful to observe. I therefore procured and have forwarded by express to Mr. G. Lee Stout two bottles filled with the bailings of this great filter. These I saw filled and brought them back to the hotel with me. I certify that the smaller one was caught from the small drip immediately below the bed and the larger one was secured from the stream as it ran away to the tide water river a little beyond, which is known hereabouts as the "Thor-

oughfare." At the top of the bed, at its sides and also-noticeably at the end where the water was delivered, there was more or less smell. In one place the mephitic odor was perceptible and disagreeable. I should not like to live next door to it, I must confess, But the stream appeared to have no bad smell and a portion of the mephitic odor (it is only right for me to say could be largely traced to a cask into which a hose was leading a stream of filthy sewage. It was an experiment of Mr. Jordan's by way of seeing what gain or value there was in the employment of the chopped peat and marsh turf from the bogs around I doubt if it could be called either nice or encouraging. Otherwise I was really surprised at the lack of odors. True the place was a salt-meadow and the air was salt air. But even at the worst it was better than some sniffs of Tony's brook when it feels strong and doesn't care who knows it!

Mr. Jordan denies that there are any chemicals used in the filtration bed. He told me that when the plan was first proposed here it was bitterly fought, even to the threat of injunction. For this reason, he said, he was us at the mercy of the drainage above glad it was so close to the heart of us. The views expressed in this arti- the town. The company is a private cle are therefore such as I am ready | corporation and they made a successto put my name to on the strength of ful bid for the business. They tell me here at "The Dennis," (where everything is scrupulously neat) that they are heartily in favor of it and shall connect their cesspools with it next year, as they find it works finely with their dish-water and other waste.

I made some other inquiries, and here are the answers bunched together: In the matter of cost it requires about \$3,500 to \$4,000 to run the present plant. This includes the salary of the Superintendent and the pay of two engineers (night and day) and one man at the filtration bed. When the filtration bed clogs, they turn the stream into another which is soon built. (They do not expect the well to clog, I notice.) Mr. Jordan wants four, eventually, and expects to change from one into the other, and so onemptying and filling as the case de mands. The excreta—the residuum or whatever you may call what solid matters are taken from the sewagecan be utilized either as compost, or poudrette. It is flowed out on the pumps down in a place about twelve garden lands at Pullman, Ill., withfeet deep. Either, it is claimed, will out charge—but here they are using it as compost and may do several other things with it. It is valuable stuff, and the sooner we all learn this fact the better it will be for our sewage

> As to the winter and the freezing: It is a remarkable fact that the filtration bed, and even the streams from it do not freeze. The explanation is probably, that the effervescing and fermenting material of the sewage develops heat. Mr. Jordan is responsible for the statement that last winter, in hard weather, ducks were often seen where the stream empties into the Thoroughfare, as the water is open observation, but he did not strike me

In a word, I was agreeably disappointed. The claim is made, by the The "filtration bed" is made of company, that sand is not so good a wood. Mr. Jordan, the Superintend- fifter as clay or loam, and that this ent, tells us, however, that he prefers | work here could be better done under other conditions. I think I should sooner see a stream, so purified, (if it is purified) running through Bloomfield, than either Tony's Brook or Second River, in their present vileness. One thing is certain: We must meet this sewage question soon and meet it fairly. And in meeting it we must conserve our present water ways as best we are able.

On the strength of the information I received in Bloomfield as to the designs at East Orange, I signed the petition which hung in the Post Office. If the East Orange plan is identical with the "West System" and is to be run by such a method as this down here, I should wait until the water from the filtration beds was analyzed. If it is as clear as it seems-though I am convinced it is none too clear now-I should think it better than the mess that Montclair and Orange gives us at

The water which I have sent is (as I understand) to be analyzed. This will tell the story and settle the matter for any candid person. I do not advo cate-I merely relate what I saw and S. W. D.

IDEAS ON THE IDEAL EYE.

An Old Philosopher Gives His Opinion o. Different Colored Optics.

"Character reading by the color of the eyes is a comparatively new study, but is stea lily gaining its favor," said an old gentleman the other day as he sat on one of the benches in Madison square and

watched the hurrying throng go by. "I've been studying eyes for the last half century," he continued, and I can tell you that blue eyes, and green eyes, and all the other kinds were not made for nothing. They were colored to assist people in reading the character of their owners, and a little knowledge of what the different colors denote will be found of great assistance in life." "What do you consider the most beau-

tiful eyes?" was asked. "Well, they're very scarce," said the old gentleman, letting his eyes wander over the half dozen faces before him "Not one here has got the ideal eye. It's a perfect violet or a velvet brown as soft and gentle as a doe's. Violet eves are very rare. I don't mean deep blue eyes, but genuine purple eyes. Babies have them sometimes, but I've only seen one or two women with them, and never a man. They denote too perfect a character for that-gentleness, intelligence, devotion, and boundless faith. Those vir-

tues aren't often found in one person. "Brown eyes? Yes, they are plentiful, physically perhaps the most beautiful eyes in the world. I think they come next to violet eyes when they are light enough to read feeling in them. Dark brown eyes are too deep. They seldom mirror the heart feelings, but are fine to look at."

"Gray eyes are the most common in the world; so what in general do they characterize in the opinion of the eyeologist?" asked a youth with a pair of blue-gray orbs.

"Well, there are a hundred different kinds of gray eyes, you know," said the old gentleman. "Yours are one kind, mine another. People haven't become advanced enough to have more than four or five colors to apply to eyes, so any that aren't blue or black or brown or hazel are called gray. You seldom see a real stupid person with gray eyes; but the genuine gray-that is always found among highly intellectual people. Steelgray eyes with large pupils denote intense feeling; blue-gray eyes are general among people with kindly hearts. You

pair of blue-gray eyes. "I've made a study of real blue eyes," he continued. "They denote quickness of thought, and generally fine physical development, when they are large and bright. About nine-tenths of our cngineers, railroad brakmen, lighthousekeepers, policemen, cadets and army and navy officers, and many others selected for physical perfection, have blue eyes. Very few blue-eyed people are colorblind or near-sighted.

"Hazel eyes denote musical ability and grace of person. They are very pretty eyes, too, and then there are real green eyes. They are not so scarce as is generally supposed; but I haven't made a close study of them, or of yellow eyes either. I hear the latter are very fashionable, but I shouldn't imagine a yellow-eyed person would have a ni-s disposition."-New York Journal.

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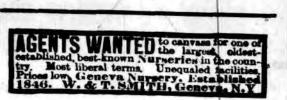
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FIRST ANNUAL STATEMENT

THE ESSEX COUNTY BUILDING AND LOAN ASSOCIATION.

RECEIPTS. DISBURSEMENTS By Loans on Bond and Mortgage \$6,447.50 " Dues paid in ' Interest " Fines " Premiums 15.00 1,968.46 \$8,639.31

ASSETS. LIABILITIES. Loans on Bond and Mortgage \$9,150.00 Due Borrowers \$2,702.50 " " Dues paid in 20.00 Advance Payments 562 Shares First Series of Stock 7,163.59 220 Shares Second " 1.449.87 Expense Acc. (Organization) Cash in Bank 1,968.46 \$11,326 96 \$11,326.96

Value on Books per Share 1st Series \$12.65.6 NUMBER of Shares, 1st Series 6.50

EPTEMBER 28, 1886.

CHARLES L. SEIBERT.

The Auditing Committee hereby certify that they have examined the books and accounts of the Treasurer and find the same to be correct, and have also made personal inquiry at the Essex County National Bank of Newark, N. J., and find the balance standing to the credit of the Association to be \$1,968.46.

> FREDERICK H. PILCH,) Auditing JOSEPH D. GALLAGHER) Committee

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Black Walnut Bedroom Suits

of all the latest degigns,

Antique Oak, Ash and Cherry Bedroom Suits at extremely low prices.

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